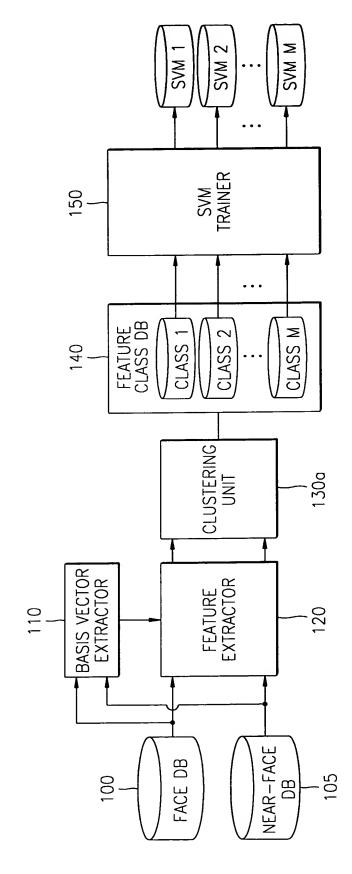
TITLE: METHOD AND SYSTEM FOR FACE DETECTION USING

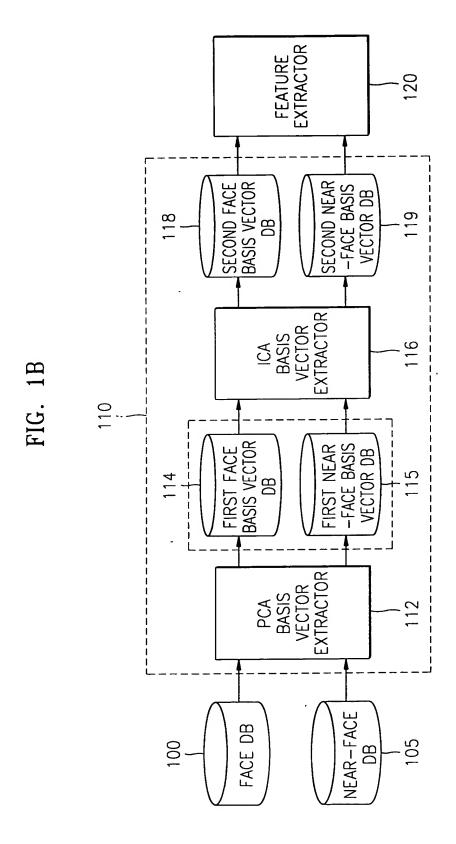
PATTERN CLASSIFIER

Inventor(s): Tae-kyun KIM Application Serial No: 030681-544 **SHEET 1 of 10** 



TITLE: METHOD AND SYSTEM FOR FACE DETECTION USING

PATTERN CLASSIFIER
INVENTOR(S): TAE-KYUN KIM
APPLICATION SERIAL NO: 030681-544 SHEET 2 of 10



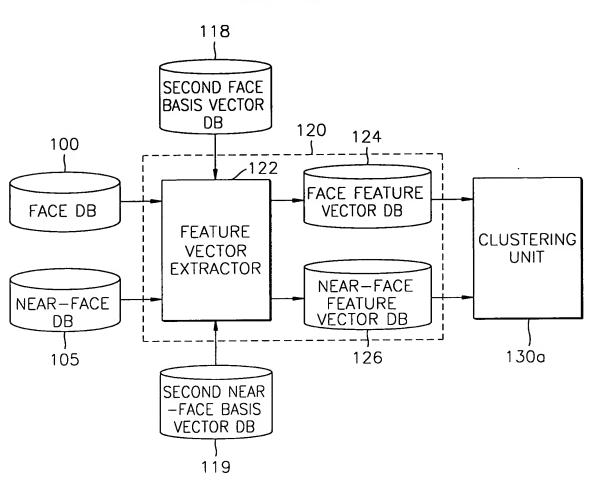
TITLE: METHOD AND SYSTEM FOR FACE DETECTION USING

PATTERN CLASSIFIER

INVENTOR(S): TAE-KYUN KIM

APPLICATION SERIAL NO: 030681-544 SHEET 3 of 10

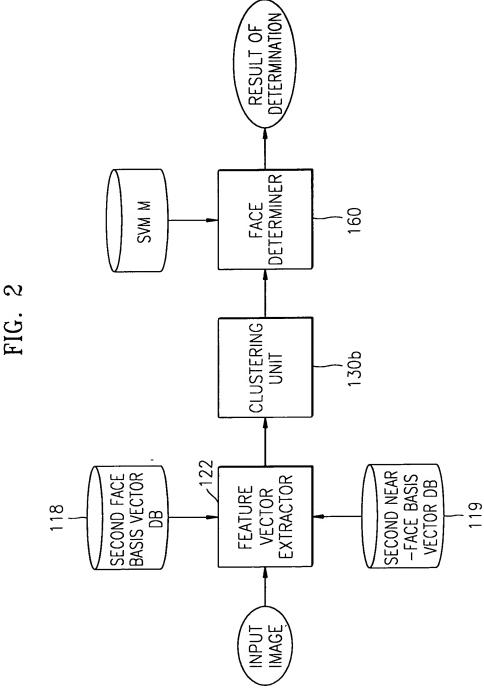
FIG. 1C



TITLE: METHOD AND SYSTEM FOR FACE DETECTION USING

PATTERN CLASSIFIER

Inventor(s): Tae-kyun KIM Application Serial No: 030681-544 SHEET 4 of 10



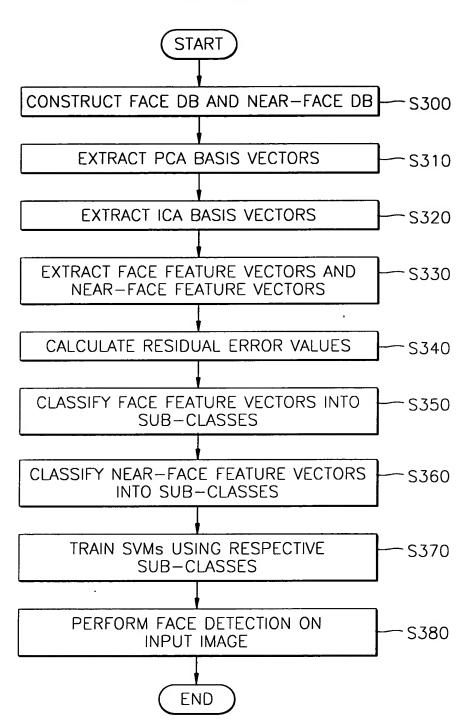
TITLE: METHOD AND SYSTEM FOR FACE DETECTION USING

PATTERN CLASSIFIER

**INVENTOR(S):** TAE-KYUN KIM

APPLICATION SERIAL NO: 030681-544 SHEET 5 of 10

FIG. 3A



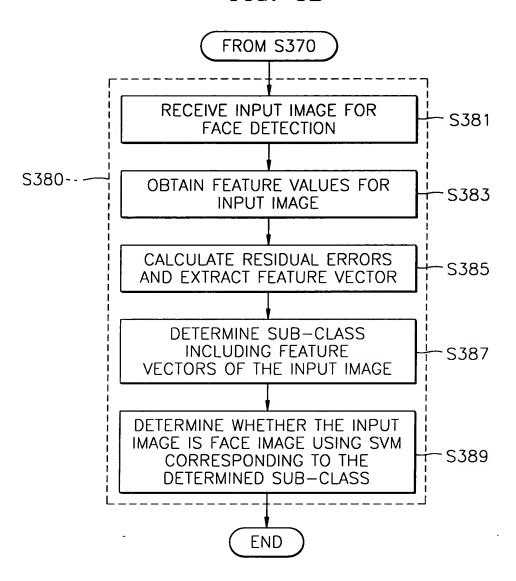
TITLE: METHOD AND SYSTEM FOR FACE DETECTION USING

PATTERN CLASSIFIER

INVENTOR(S): TAE-KYUN KIM

APPLICATION SERIAL NO: 030681-544 SHEET 6 of 10

FIG. 3B



TITLE: METHOD AND SYSTEM FOR FACE DETECTION USING

PATTERN CLASSIFIER

INVENTOR(S): TAE-KYUN KIM

APPLICATION SERIAL NO: 030681-544 SHEET 7 of 10

FIG. 4A



FIG. 4B



FIG. 4C



FIG. 4D



BEST AVAILABLE COPY

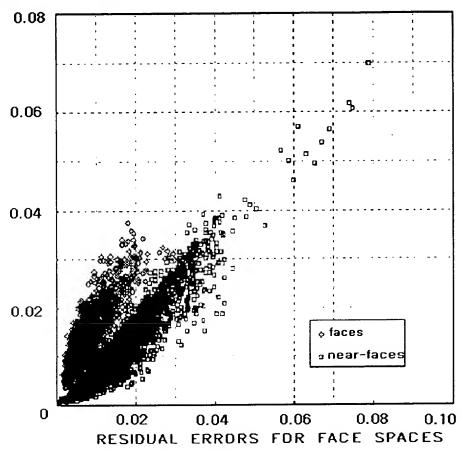
APPLN. FILING DATE: JULY 18, 2003
TITLE: METHOD AND SYSTEM FOR FACE DETECTION USING

PATTERN CLASSIFIER

INVENTOR(S): TAE-KYUN KIM APPLICATION SERIAL NO: 030681-544 SHEET 8 of 10

FIG. 5

RESIDUAL ERRORS FOR NEAR-FACE SPACES



BEST AVAILABLE COPY

TITLE: METHOD AND SYSTEM FOR FACE DETECTION USING

PATTERN CLASSIFIER

INVENTOR(S): TAE-KYUN KIM

APPLICATION SERIAL NO: 030681-544 SHEET 9 of 10

FIG. 6

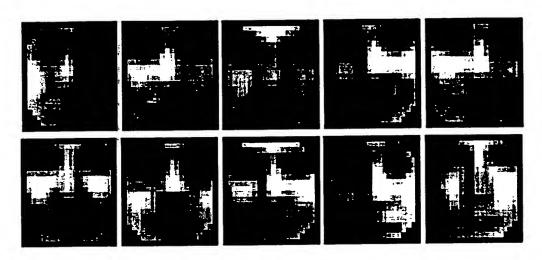
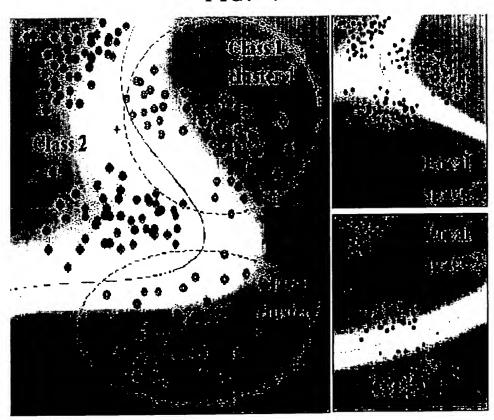


FIG. 7



**BEST AVAILABLE COPY** 

APPLN. FILING DATE: JULY 18, 2003
TITLE: METHOD AND SYSTEM FOR FACE DETECTION USING

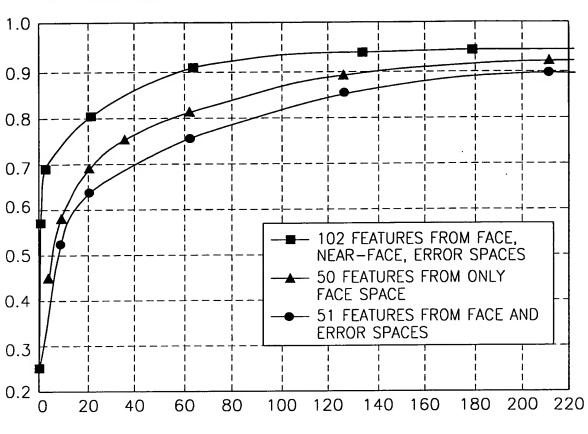
PATTERN CLASSIFIER

INVENTOR(S): TAE-KYUN KIM

**SHEET 10 of 10** APPLICATION SERIAL NO: 030681-544

FIG. 8

## **DETECTION RATE**



FALSE ALARMS